



Transportation Commission

June 18, 2014



Updates to Receive (Consent)

Agenda Item #2



2014 Transportation Long Range Plan

Agenda Item #3

Transportation Projects List

- **LRP**- *Unconstrained* list of transportation projects, programs and studies
- **Project Matrix** – *Constrained* list of transportation projects for which full or partial funding has been identified

Projects will only appear on one list

Long Range Transportation Plan (LRP)

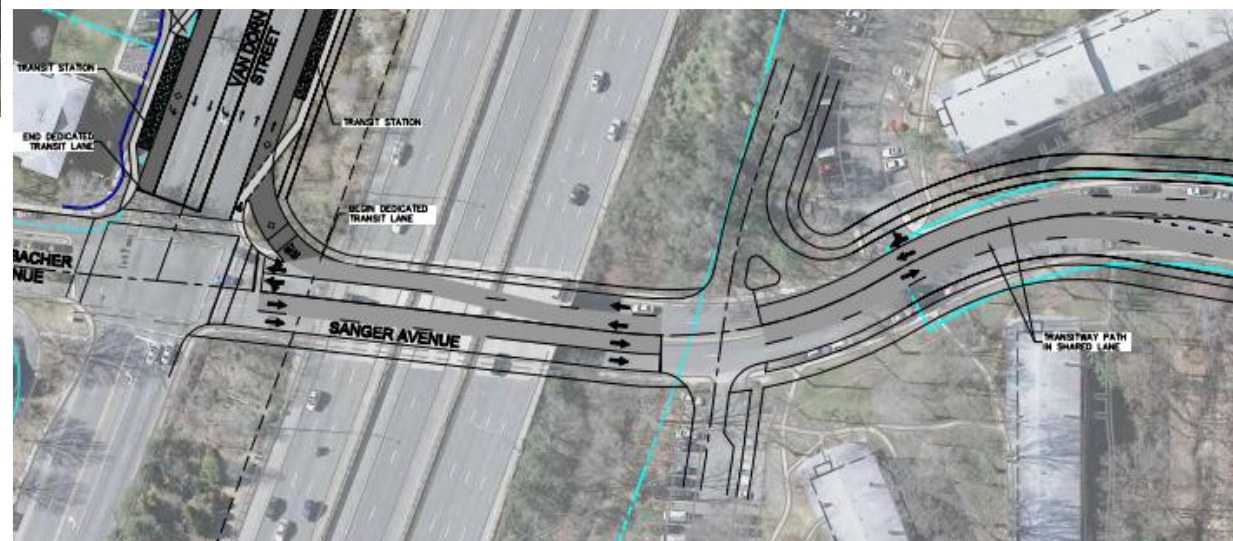
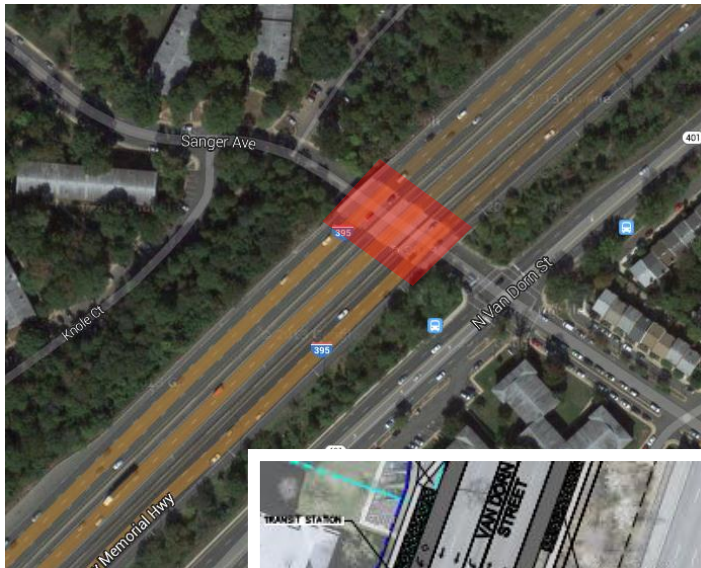
1. Project List – capital projects which are not funded (prioritized by the Transportation Commission)
2. Program List
3. Studies List

2014 Proposed New Projects

- Sanger Avenue bridge
- Mt. Vernon / W. Glebe Rd. intersection improvements (previously listed in the Programs section)
- Holmes Run Trail at Morgan Street
- Eisenhower East Circulator (from DASH COA)
- Van Dorn Circulator (from DASH COA)
- Redesign intersection of Mt. Vernon Ave. at Four Mile Run

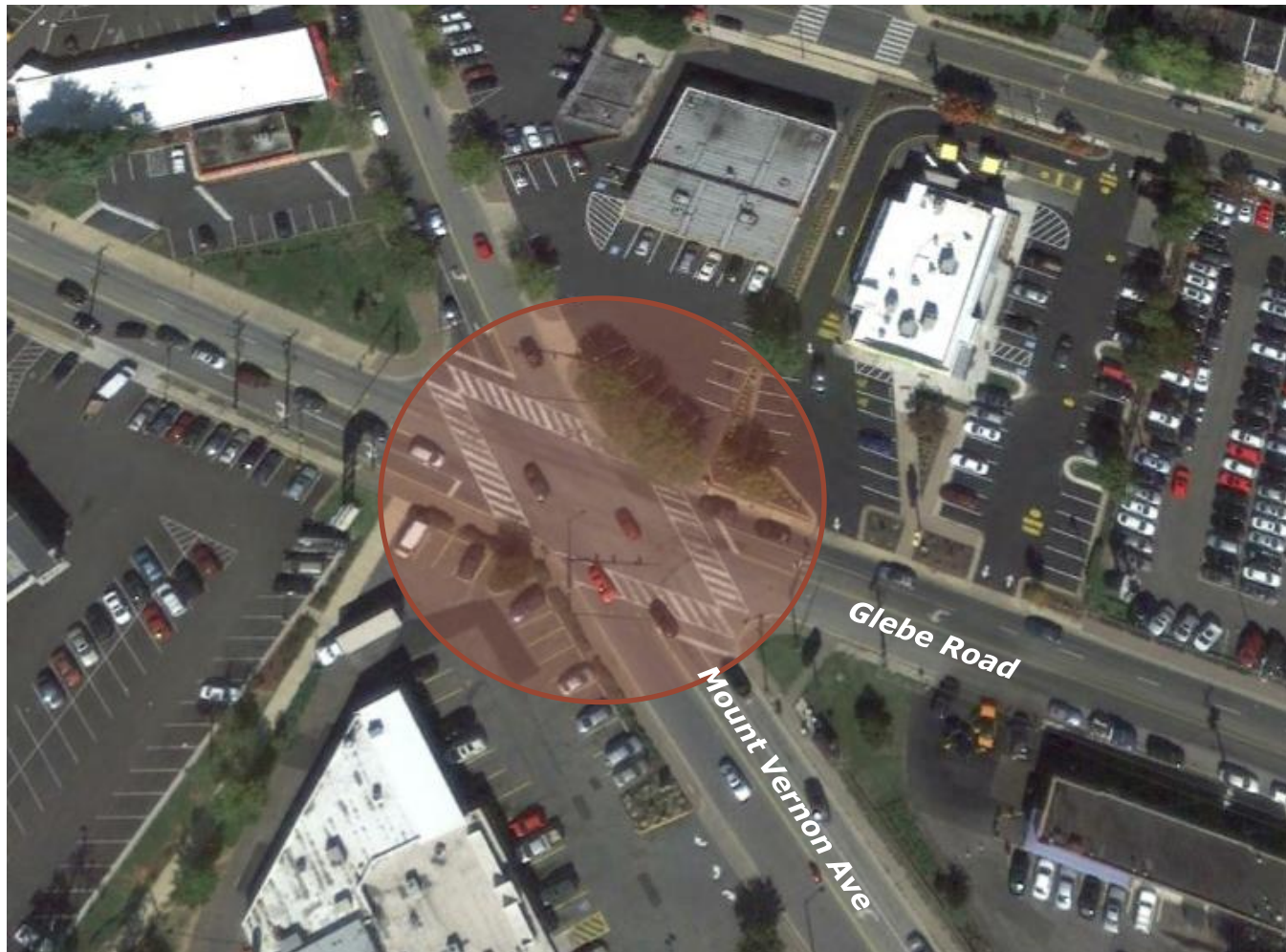
New 2014 Project (22)

Sanger Avenue Bridge



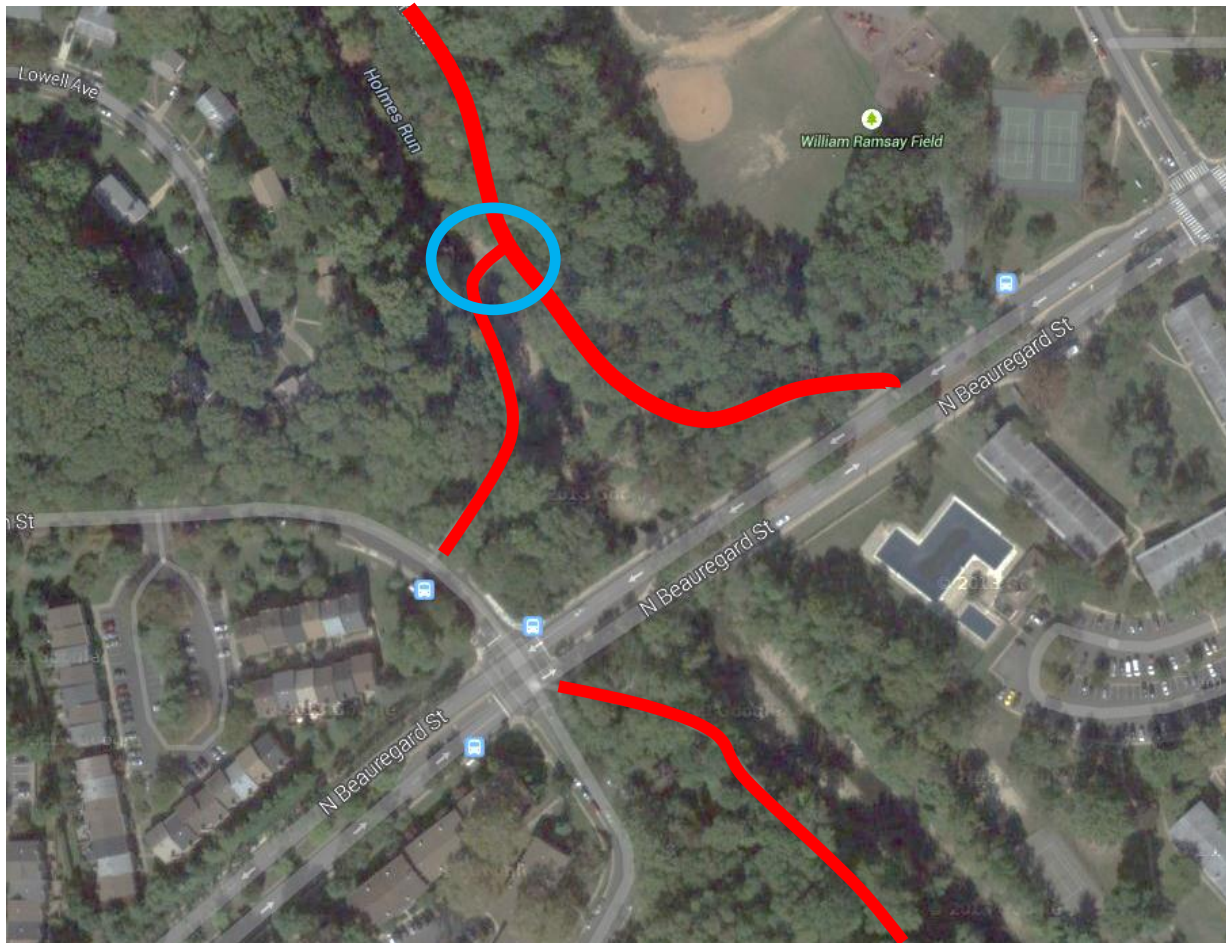
New 2014 Project (23)

Mt. Vernon Ave at Glebe Road



New 2014 Project (24)

Holmes Run Trail at Morgan Street



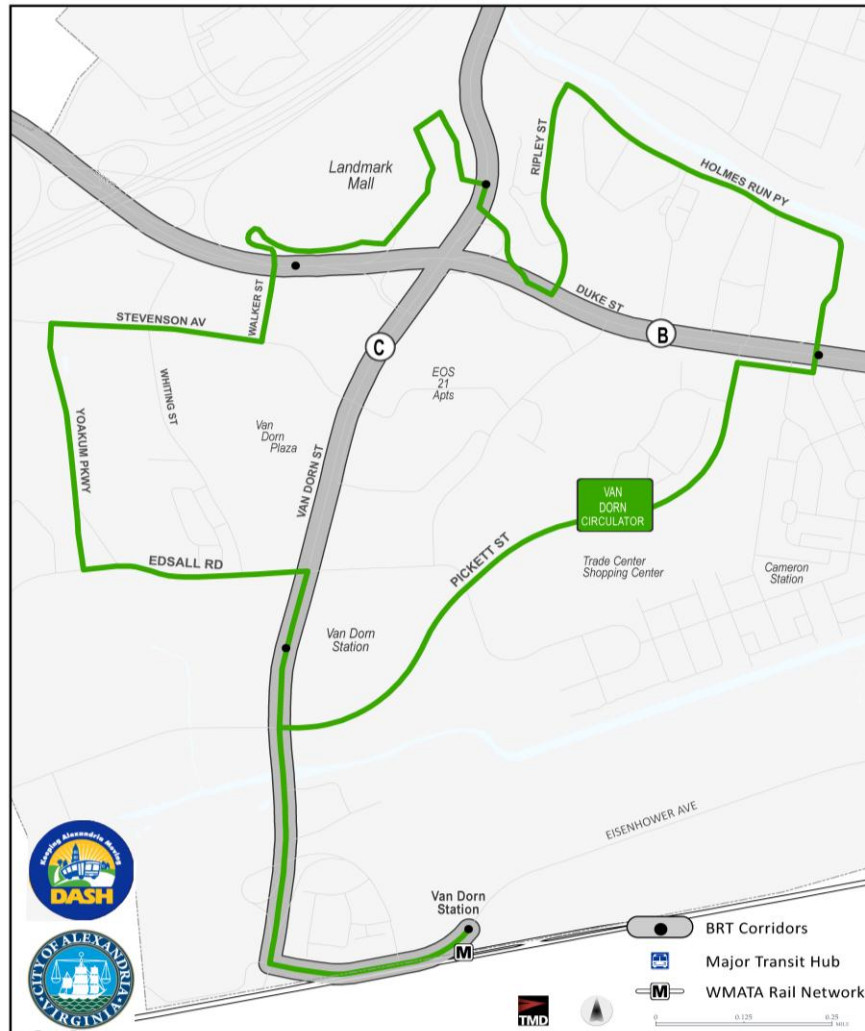
New 2014 Project (25)

Eisenhower East Circulator



New 2014 Project (26)

Van Dorn Circulator



New 2014 Project (27)

Mt. Vernon at Four Mile Road Intersection



2014 – Study Deletions

- Edsall Road / S. Pickett Street Intersection
- Van Dorn Metrorail Station Access & Circulation Study
- Transitway Corridor A Circulator Study
- Braddock Metro parking requirements

2014 – Programs

- Propose to remove the “Programs” category since the programs are now covered through the Complete Streets Program

2014 Draft Commission Rankings



2013	2014	
4	1	Potomac Yard Intermodal Transit Center
3	2	Glebe Road bridge and Four Mile Run Pedestrian Bridge
2	3	Pedestrian/bicycle connection from Potomac Yard to Four Mile Run
<u>NEW</u>	4	<u>Van Dorn Circulator Service</u>
6	5	Corridor A Circulator transit service
<u>NEW</u>	6	<u>Mt. Vernon Ave at Glebe Rd Intersection Improvements</u>
4	7	Van Dorn Street bridge widening
12	8	Bradlee Transit Center
10	9	Prince Street/ Cameron Street bicycle facility
<u>NEW</u>	10	<u>Sanger Avenue Bridge</u>
<u>NEW</u>	10	<u>Eisenhower East Transit Circulator</u>
1	11	Royal Street Bicycle Boulevard / Bikeway
8	12	Commonwealth Avenue Non-motorized bridge
10	13	Eisenhower Avenue Metrorail Station platform extension
5	14	Bicycle parking at waterfront
7	14	Library Lane extension
9	14	West End Transit Shop
11	15	Pedestrian improvements at King Street at waterfront
<u>NEW</u>	16	<u>Holmes Run Trail at Morgan Creek</u>
18	17	Clermont interchange with I-95 and connection to Eisenhower Avenue
21	17	Edsall Road connector to Farrington Avenue and S. Pickett Street
19	18	South Van Dorn Street improvements at City Limits

2014 Draft Commission Rankings (Cont.)



2013	2014	
20	19	Construct Elizabeth Lane extension
17	20	I-395 Access to West End Town Center
16	21	New Road to Four Mile Run Park
13	22	Van Dorn at Braddock Road intersection improvements
14	23	Beauregard Street at West Braddock intersection improvements
15	24	Quaker Lane at Seminary Road/Janney's intersection improvement
<u>NEW</u>	25	<u>Redesign intersection of Mt. Vernon and Four Mile Road</u>

Proposed LRP Schedule

June 18	Initial Screening of Projects Draft LRP
July 16	Public input Adoption of LRP by Transportation Commission

Thank You

QUESTIONS?



Commission Updates

Agenda Item #4



Route 1 HOV / Transitway Enforcement

Agenda Item #5



Street Reconstruction and Resurfacing of Major Roads Update and Complete Streets Coordination

Agenda Item #6

Pavement Improvements

- Paving and Patching Annual Budget
 - Major resurfacing budget of \$1.875M **increased** to \$4.493 in FY2015
 - Local/ residential street patching and pothole repair budget of \$1.0M
- Major resurfacing vs. Patching and preventative maintenance
 - Increased focus on preventative maintenance
- Objective prioritization process used to develop both patching and major resurfacing schedules

Pavement Repair Prioritization

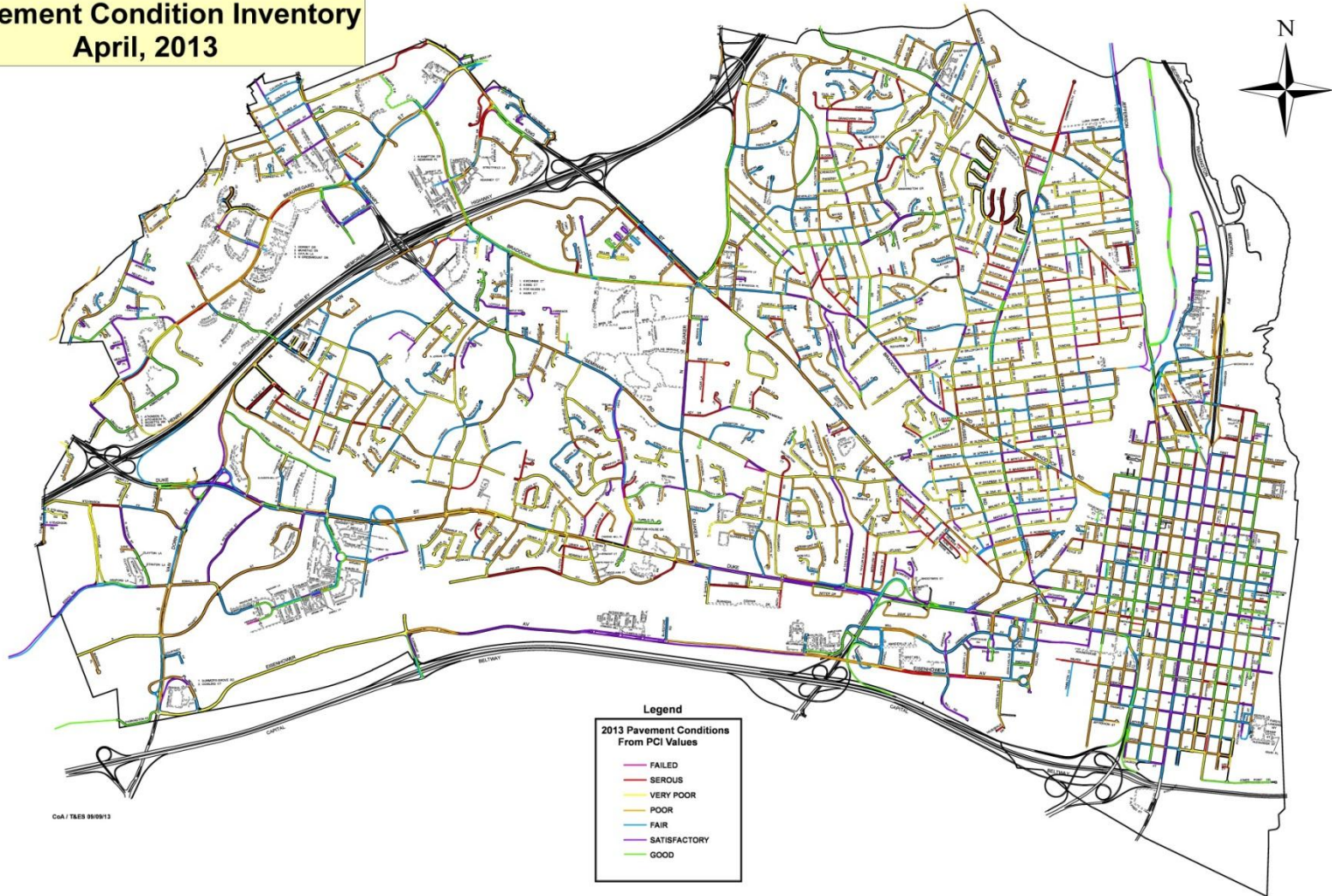
- Limited funds focused on streets in the highest need
- In 2013 T&ES completed a thorough condition assessment of the road network
- All 560 lane miles assessed and assigned a PCI (Pavement Condition Index) rating of 0-100
- PCI based on a streets ride quality, cracking, pothole and utility cuts, and various other defects
- City's average PCI was 58 with nearly 50% at or below a score of 60

What is a Pavement Management System?

- A set of tools that helps T&ES find cost-effective strategies for evaluating and maintaining pavement in serviceable condition
- Starts with field condition evaluations. Then, two basic components:
 - A comprehensive database that contains current and historical information on pavement conditions, structure and traffic
 - A set of tools that allows the City to determine existing and future pavement conditions, predict financial needs and identify/prioritize pavement maintenance projects
- Results in the development of a 3 year paving schedule- **Better Coordination with Utilities, Transportation Planning, and Other City Projects**

Paving Condition Inventory

Pavement Condition Inventory
April, 2013



Proposed FY15 Major Paving Projects

Section	Avg PCI	Estimated Cost
E. Howell from Mt Vernon to Jefferson Davis Hwy	25.50	\$84,000.00
Duncan Ave from Mt Vernon Ave to Bellefonte	27.75	\$111,000.00
N Gordon St from Duke St to the dead end	29.00	\$80,000.00
Wheeler Ave from Duke St to the dead end	29.80	\$500,000.00
W Bellefonte Ave from Russell Rd to Jefferson Davis Hwy	31.20	\$150,000.00
Eisenhower Ave from S. Van Dorn to Clermont Ave	31.33	\$550,000.00
Princess St from N Columbus St to Cameron St via Buchanan St	34.00	\$180,000.00
N. Pitt St. from Bashford Ln to Pendleton St.	31.00	\$140,000.00
Beauregard from Mark Center Dr to Lincolnia Rd	34.75	\$700,000.00
Ridge Rd from Crestwood Dr to Braddock Rd	17.50	\$90,000.00
Janneys Lane from Cloverway to King St	33.00	\$150,000.00
Taney Ave from Van Dorn St to the dead end	33.13	\$410,000.00
Yoakum Parkway from Edsall Rd to Stevenson Ave	36.00	\$180,000.00
N Hampton Dr from Ford Ave to King St	23.50	\$150,000.00
King St from Radford St. to Janney's Lane	36.43	\$460,000.00
Royal St from Gibbon St to Jones Point Dr	36.50	\$175,000.00
Monroe Ave from Stonewall Rd to Leslie Ave	39.00	\$250,000.00
TOTAL	31.14	\$4,360,000.00

Proposed FY16 Major Paving Projects

Section	Avg PCI	Estimated Cost
Duke St. from N. Quaker Ln. to S. Jordan St.	40.00	\$520,000.00
Prince St. from Dangerfield Rd. to S. Columbus St.	35.00	\$208,000.00
S. Van Dorn St. from S. Pickett St. to Edsall Rd.	45.00	\$170,000.00
N. Van Dorn St. from Seminary Rd. to Menokin Dr.	41.00	\$250,000.00
Eisenhower Ave. from Bluestone Rd. to Mill Rd.	40.60	\$480,000.00
E. Taylor Run Pkwy from Duke St. to Dead End	45.20	\$170,000.00
S./ N. Jordan St Entire Length	31.00	\$450,000.00
Cambridge Rd. from Duke St. to Janney's Ln	30.00	\$140,000.00
Braxton Pl. Entire Length	18.00	\$50,000.00
Hilltop Terrace Entire Length	27.00	\$50,000.00
Putnam Pl. Entire Length	26.50	\$60,000.00
Westview Terrace Entire Length	40.00	\$50,000.00
E. Oxford Ave Entire Length	37.00	\$110,000.00
E./ W. Myrtle St. Entire Length	35.00	\$100,000.00
Dawes Ave. from King St. to Seminary Rd.	28.00	\$140,000.00
CityWide Alley Resurfacing	< 10	\$300,000.00
Hume Ave. Entire Length	38.00	\$80,000.00
Raymond Ave. Entire Length	42.50	\$80,000.00
Fordham Rd. Entire Length	21.50	\$60,000.00
Farm Rd./ Wellington Rd. from Chalfonte Dr. to Circle Terrace	43.20	\$180,000.00
TOTAL	34.97	\$3,648,000.00

Proposed FY17 Major Paving Projects

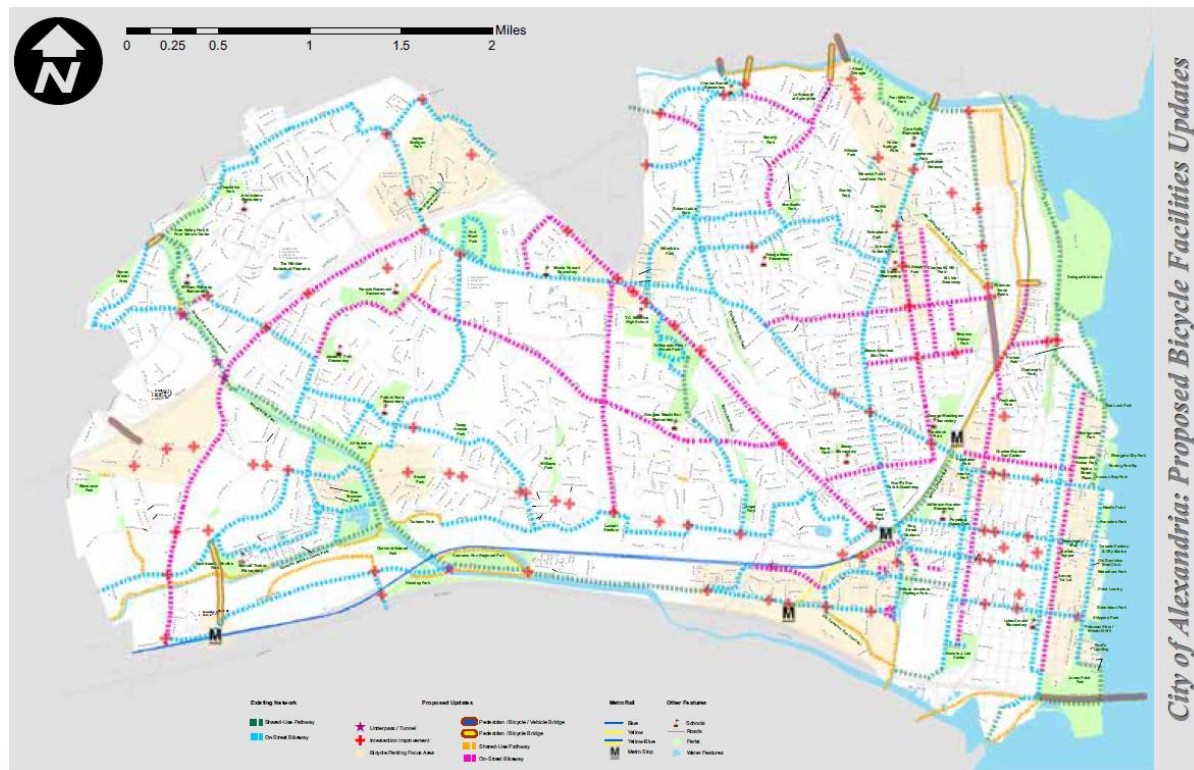
Section	Avg PCI	Estimated Cost
E Windsor Ave from Russell Rd to Jefferson Davis Hwy	34.63	\$140,000.00
Russell Rd. from Mt. Vernon Ave. to Masonic View Ave.	42.25	\$900,000.00
Cameron St. from Union St. to Buchanan St.	44.50	\$200,000.00
Mt. Vernon Ave. from Braddock Rd. to Hume Ave.	42.00	\$420,000.00
Randolph Ave. Entire Length	25.50	\$140,000.00
E. Braddock from Russell Rd. to N. West St.	38.50	\$180,000.00
N./ S. Columbus from Green St. to Oronoco St.	37.50	\$300,000.00
CityWide Alley Resurfacing	< 20	\$300,000.00
Pickett St. from Van Dorn St. to Valley Forge	44.60	\$300,000.00
Kennedy St./ Landover Rd. Entire Length	23.50	\$200,000.00
N. Pickett from Polk Ave. to Dead End	44.20	\$80,000.00
N./ S. Henry St. from Slater's Ln. to Franklin St.	48.00	\$500,000.00
Pendleton St. Entire Length	42.50	\$200,000.00
N. Owen St. Entire Length	47.50	\$60,000.00
St. Stephens Rd Entire Length	28.80	\$140,000.00
Colonel Ellis Ave. Entire Length	31.20	\$50,000.00
Chambliss St. Length in City	38.50	\$80,000.00
Francis Hammond/ Skyhill Rd.	32.50	\$100,000.00
W. Timber Branch Pkwy. From Braddock Rd. to Dead End	44.25	\$100,000.00
Taney Ave. from N. Early St. to N. Gordon St.	32.50	\$80,000.00
Leslie Ave. from Randolph Ave. to Duncan Ave.	25.50	\$140,000.00
E. Glebe Rd. from Jefferson Davis Hwy to Russell Rd	46.50	\$200,000.00
TOTAL	37.85	\$4,810,000.00

Coordination Between Pavement Improvements and Complete Streets

- Paving management objectively sets the schedule for Citywide pavement improvements
- Proposed major resurfacing schedule coordinated with complete streets planning for potential synergies
- Where feasible paving management and complete streets are done in unison

Complete Streets

- Complete Streets Policy
- Transportation Master Plan
- Pedestrian and Bicycle Mobility Plan



Complete Streets Upgrades

- New and upgraded crosswalks
- Sidewalks and curb ramps
- Pedestrian signage
- Bus stops
- On-street bicycle facilities



Project Prioritization

- Large increase in lane miles to be resurfaced in 2015
- Complete Streets projects must be prioritized to be accomplished within funding available
- Prioritization by:
 - Plan recommendations
 - Crashes
 - Street classification
 - Activity centers
 - Distance from schools, parks, and transit

Paving List Projects

- Planned projects
 - Intersection of Yoakum Parkway and Stevenson Avenue
 - Median and pedestrian refuge
 - Removing parking restrictions
 - Civic engagement underway, community meeting held
 - Monroe Avenue, Stonewall to Leslie Avenue
 - Concepts being developed for various safety improvements
 - Civic engagement underway, community meeting held
 - Intersection of Janneys Lane and Taylor Run Parkway
 - Curb extensions and crossing improvements
 - Bicycle shared lanes
 - Civic engagement underway, community meetings to be held Summer 2014
- Roadways under study
 - King Street, Janney's Lane to Quaker Lane
 - Data collection
 - Taney Avenue, Van Dorn Street to dead-end
 - Data collection

Thank You

QUESTIONS?

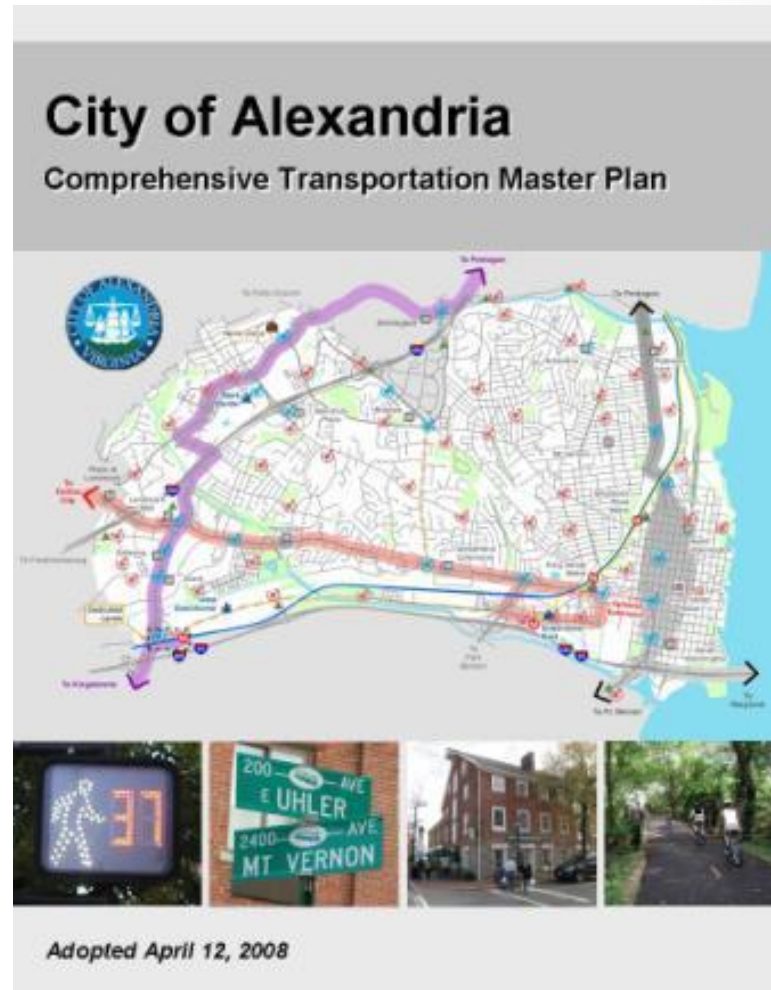


Pedestrian and Bicycle Master Plan / Complete Streets Design Guidelines Update

Agenda Item #7

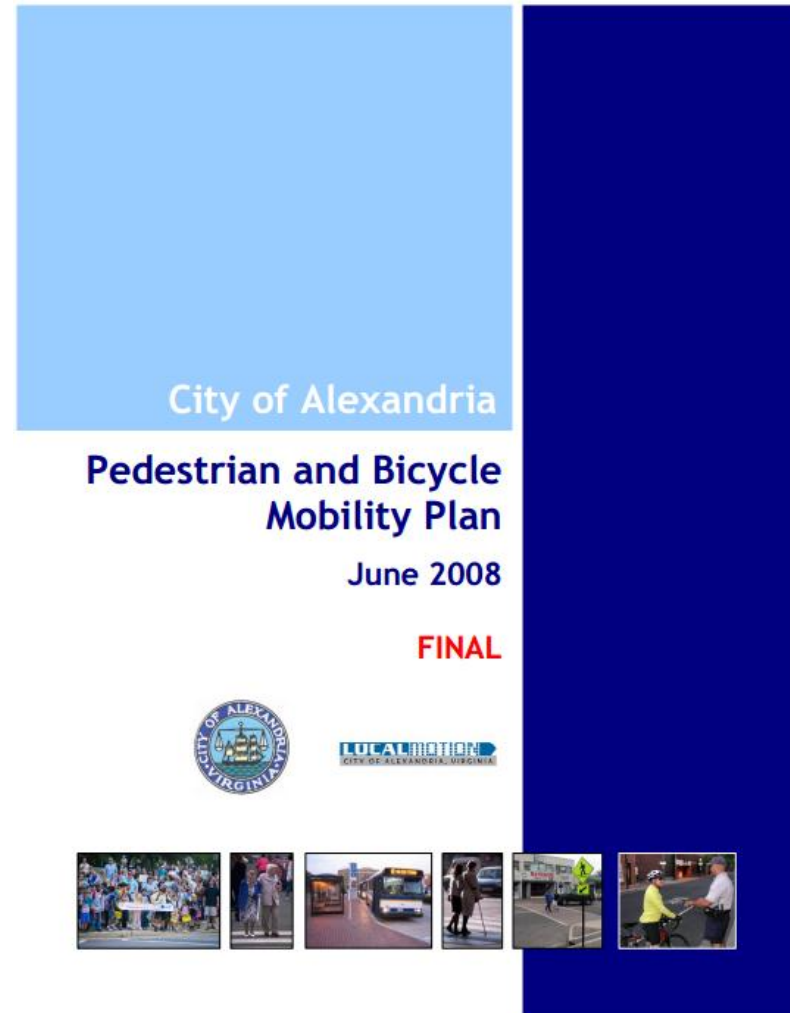
Project Background

- 2008 Comprehensive Transportation Master Plan
 - Pedestrian chapter
 - Bicycle chapter
- 2008 Pedestrian and Bicycle Mobility Plan
- 2011 – Complete Streets Policy adopted
- 2011 – Began Capital Bikeshare



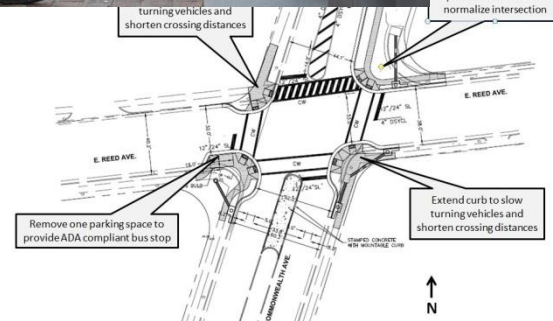
Project Background

- 2008 Pedestrian and Bicycle Mobility Plan
 - 597 driveway recommendations
 - 882 curb ramp improvements
 - 1,320 crosswalk recommendations
 - 632 signal recommendations
 - 79.2 miles of sidewalk recommendations
 - 61.8 miles of on-road bicycle recommendations
 - 38.05 miles of off-road recommendations



Progress since 2008

- Jones Point Trail
- Holmes Run Trail
- Chambliss Xing
- Jamieson Ave Bike Facilities
- Stultz Road Bike Lanes
- Fort Williams Bike Lanes
- Capital Bikeshare
- Pedestrian and Bicycle Wayfinding
- Multiple SRTS projects
- Neighborhood traffic calming
- Many more...



Why the need for the Update?

- Need for more directive policies
- Incorporate 2011 Complete Streets Policy
- Incorporate Capital Bikeshare / Expansion
- Incorporate recent Small Area Plans/ Design Guidelines
- Connectivity to transit
- Plan for more on-street bicycle facilities



Project Vision

- Realize Alexandria's potential as a premier walking and biking city
- Increase levels of walking and bicycling by all ages and abilities
- Become a Platinum-Level Pedestrian Bike Friendly City
 - Currently Silver WFC & BFC
- Develop tools to help realize the vision
 - Ped/Bike Master Plan update
 - Complete Streets Design Manual

3 Key Deliverables

- Update Bicycle and Pedestrian Chapters of Transportation Master Plan
 - High level policy guidance
 - Network recommendations
- Pedestrian and Bicycle Master Plan Appendices
 - Inventory of Existing Conditions /Issues and Needs
 - Address safety needs
 - Policy and program recommendations
 - Connect key destinations
 - Expand Bike Share
- Develop Complete Streets Design Guidelines
 - Integrate design guidance (e.g. green streets)
 - Incorporate range of bike/ped facilities
 - Reference for staff, developers, and community

Approach

- Build on previous work
 - Pedestrian and Bicycle Mobility Plan
 - Transportation Master Plans
 - Small area and corridor studies
- Data driven approach
 - Pedestrian and bicycle trip generators
 - Safety data
 - Bike share data
- “Design Vehicle”
 - Who are we planning for?
 - What are their needs?



Scope of Work

- Pedestrian and Bicycle Master Plan
 - Data Collection and Review
 - Existing Conditions
 - Civic Engagement
 - Identify Needs and Issues
 - Policy Review and Development
 - Pedestrian and Bicycle Network Development
 - Implementation Strategy
 - Transportation Master Plan Chapter Update

Outline *(Tentative)*

1. Vision and Goals
2. Existing Conditions
3. Needs Assessment
4. Civic Engagement
5. Ped/Bike Network Recommendations
6. CaBi Expansion
7. Policy and Program Recommendations
8. Implementation and Funding

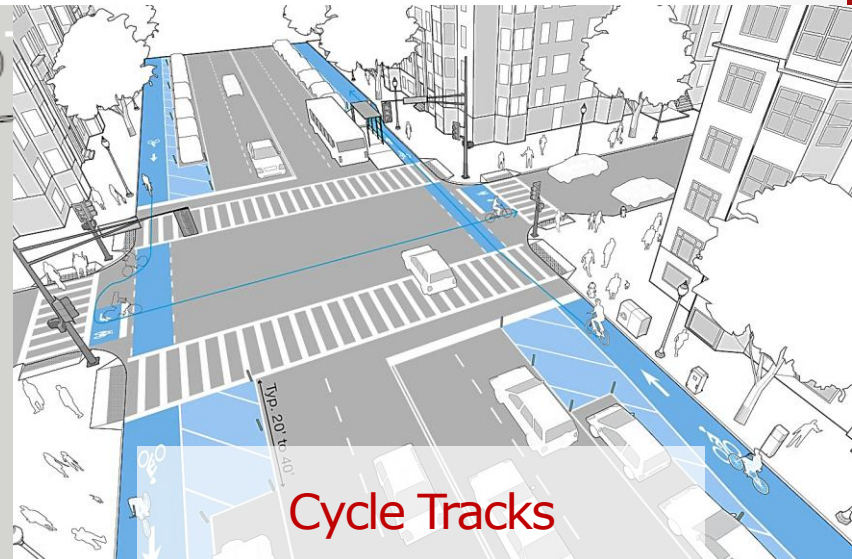
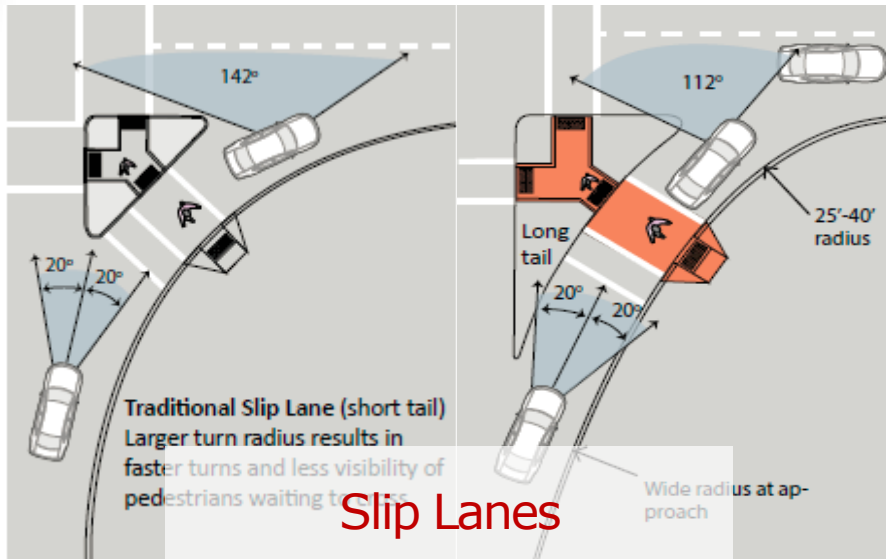
Scope of Work

- Complete Streets Design Guidelines
 - Guiding Principles (*start with 2011 CS Policy*)
 - Policy and Guidance Review
 - Best Practices Research
 - Stakeholder/Civic Engagement
 - Develop Recommendations
 - Negotiate Design Guidelines
 - Final Complete Streets Design Manual

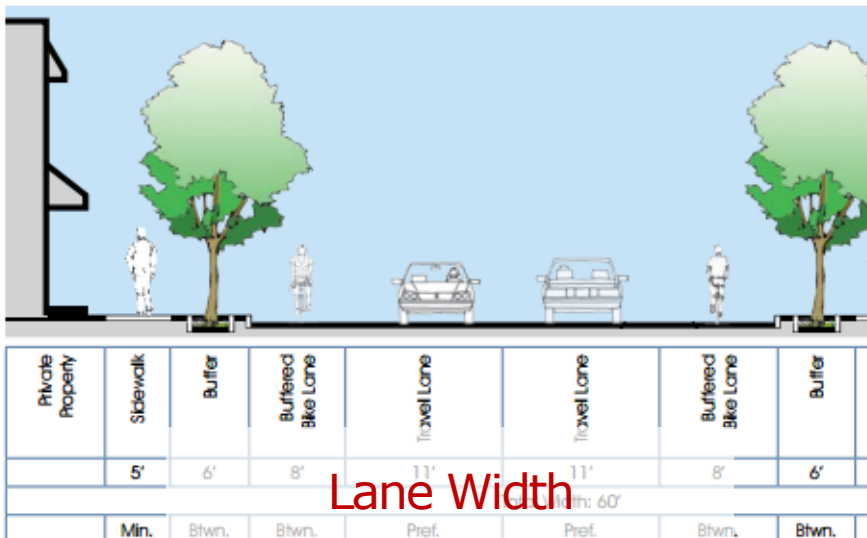
Outline (Tentative)

1. Vision
2. Street Types
3. Roadway Design
4. Intersection Design
5. Sidewalk Realm
6. Greenscape
7. Curbside Management
8. Smart Technology
9. Implementation

Example Design Elements

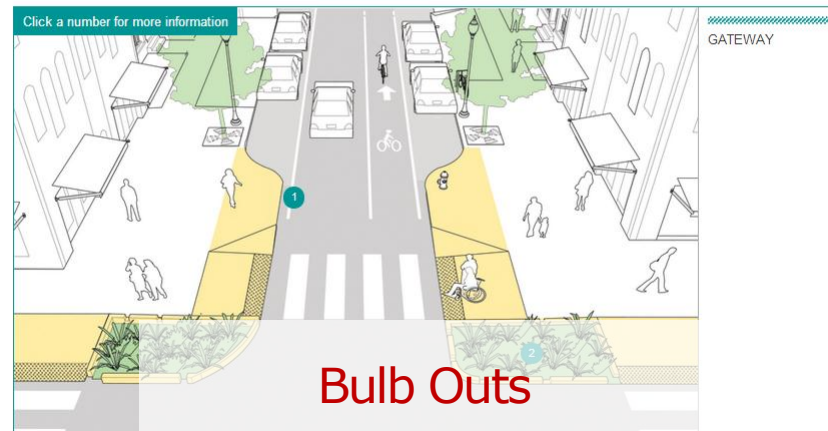


EXAMPLE COMMERCIAL TYPOLOGY CROSS SECTION: 60' ROW

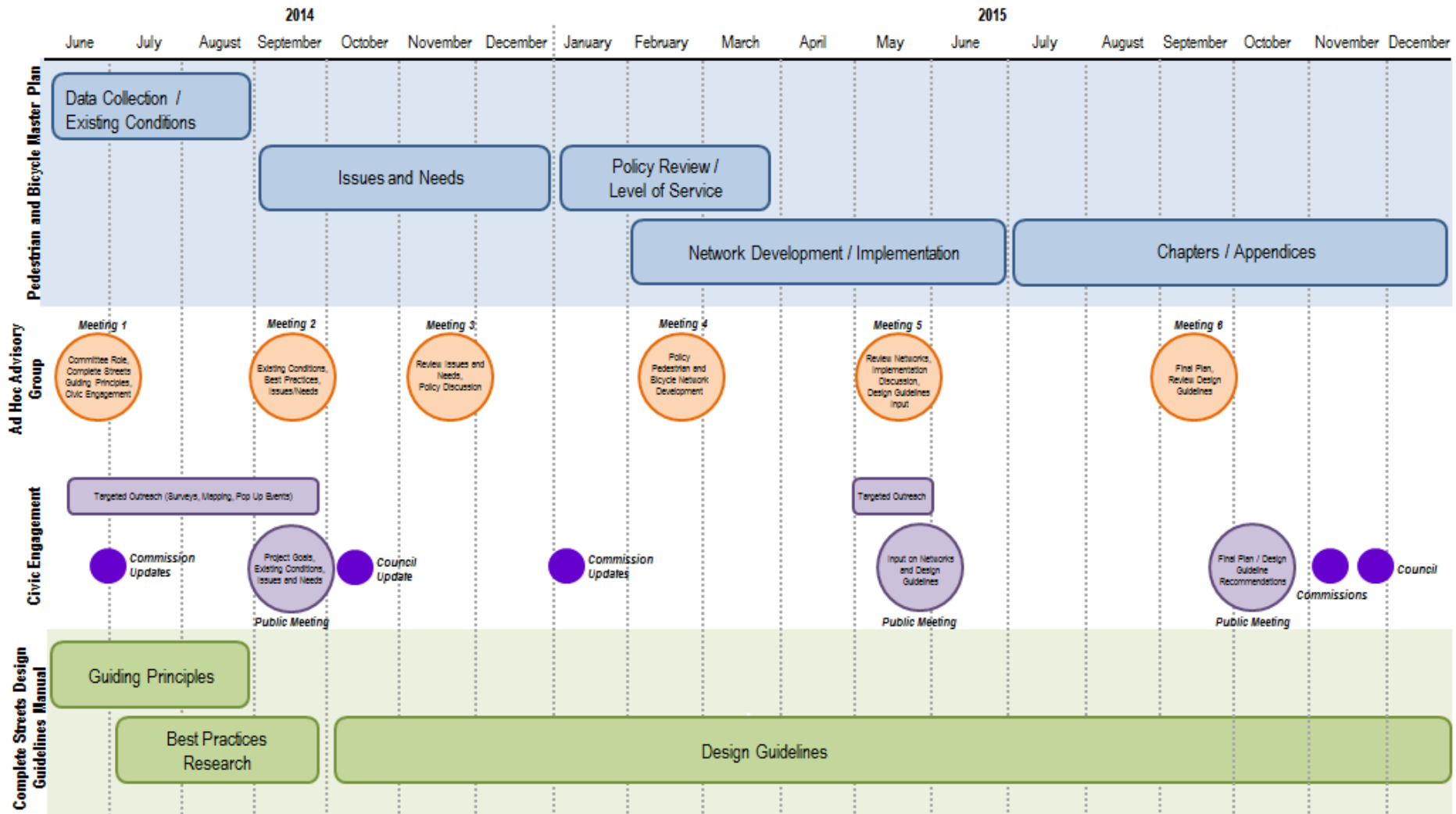


Gateway

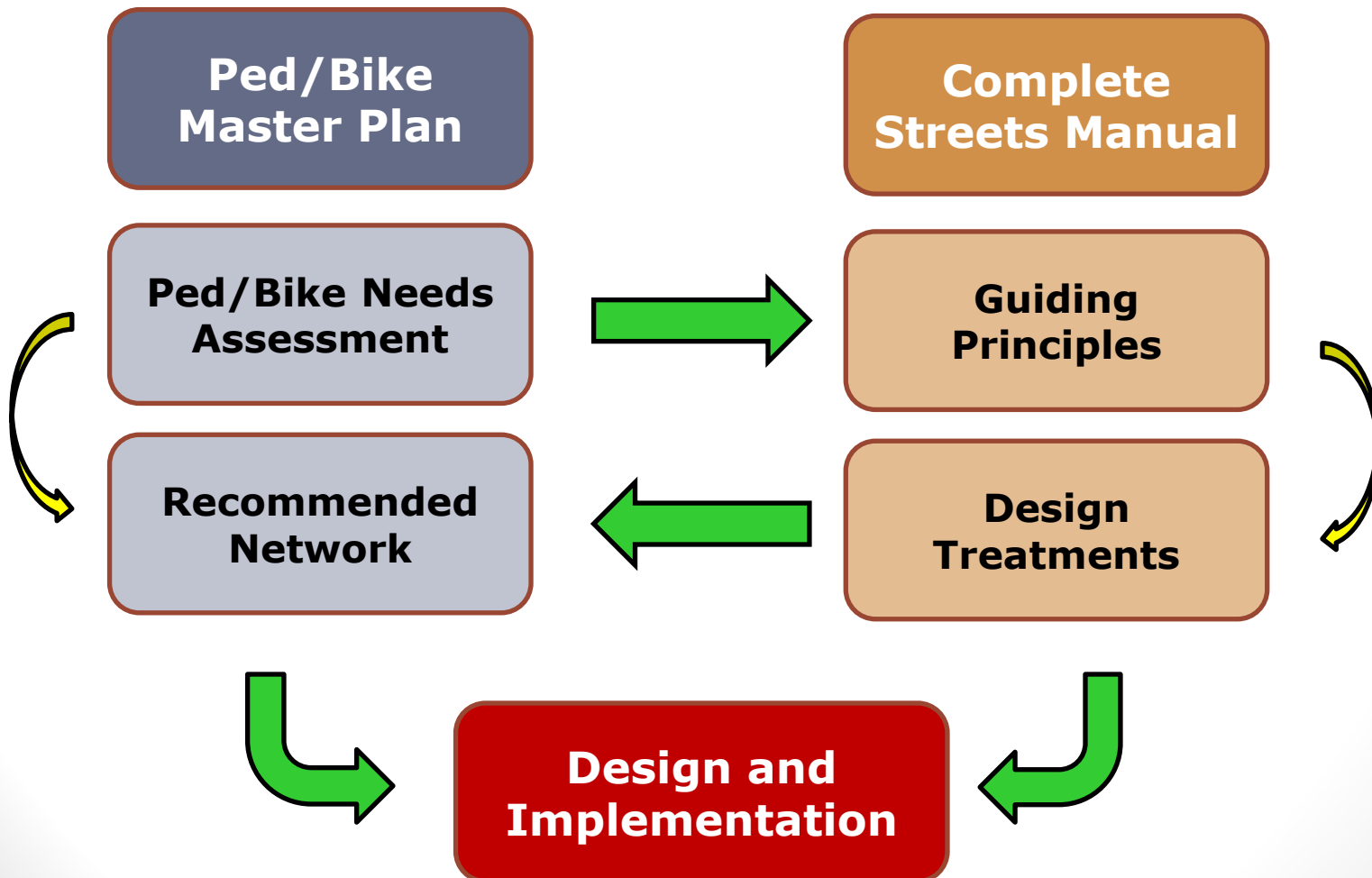
Curb extensions are often applied at the mouth of an intersection. When installed at the entrance to a residential or low speed street, a curb extension is referred to as a "gateway" treatment and is intended to mark the transition to a slower speed street.



Schedule



Project Relationship



Ad Hoc Pedestrian and Bicycle Advisory Committee

Ad Hoc Committee

- Transportation Commission
- Planning Commission
- Parks & Recreation Commission
- Traffic & Parking Board
- Commission on Aging
- Commission on Persons with Disabilities
- Alexandria BPAC
- At Large Citizen Representation (5)
- Design Professional
- Business Community

- Vision and goals
- Issues and needs
- Guidance on:
 - Policy recommendations
 - Bicycle and pedestrian network
 - Project recommendations
 - Prioritization criteria
- Community liaison
- First meeting on June 25 (7 – 9 pm, Sister Cities)

Civic and Stakeholder Engagement

- Incorporate "What's Next, Alexandria"
- Public Meetings (3)
- Walkabouts
- Stakeholder Meetings
- Council and Commission Meetings



INSTRUCTIONS

1 DRAW your ideas by clicking "Add route" or "Add point" in the menu bar below.

2 DESCRIBE the route or point by answering the pop-up survey.

3 COMMENT on others' input by clicking on their route or point.

For detailed instructions, see "About & Help" below.

BASEMAP

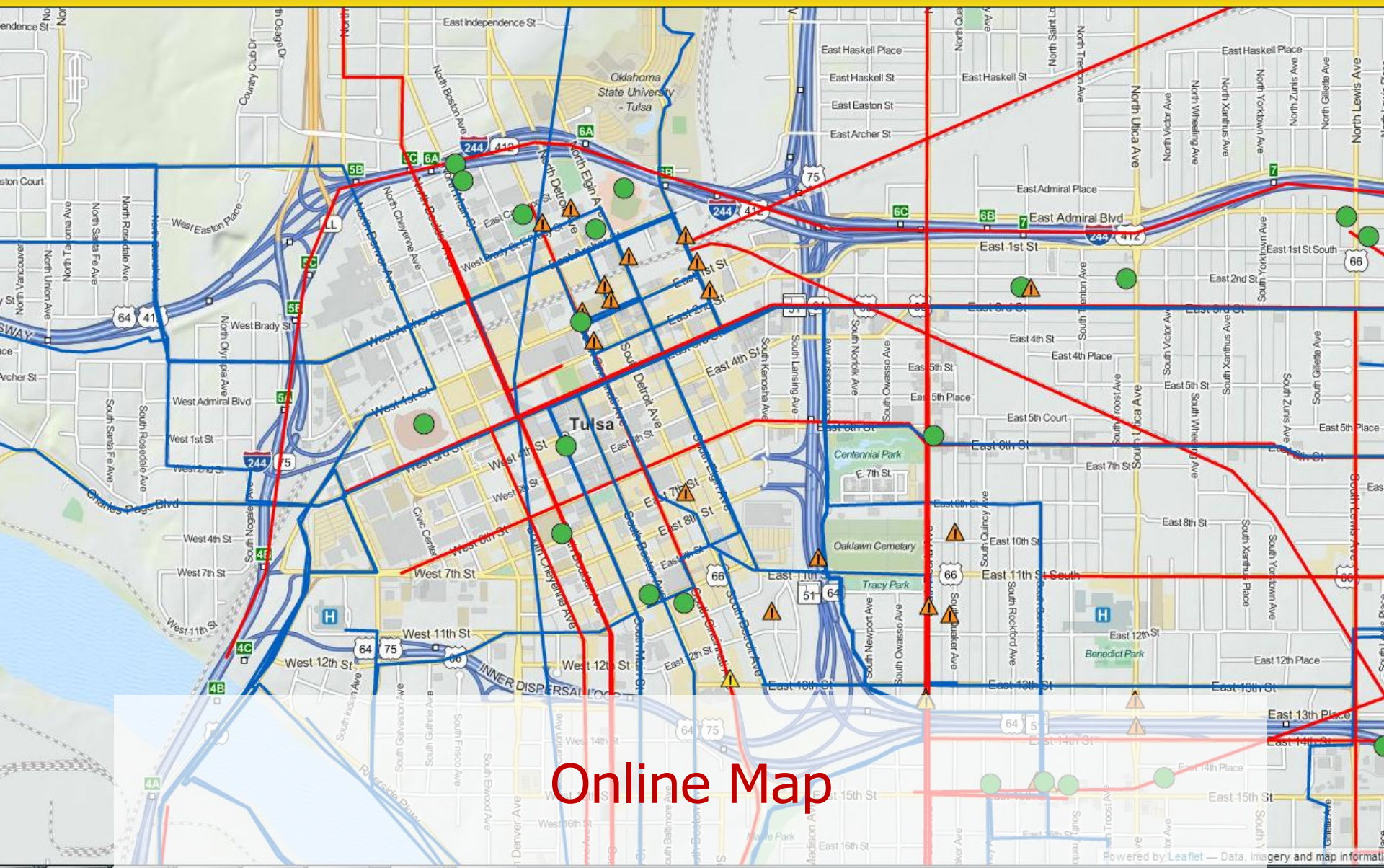
- Interstate Highway
- Arterial Road
- Collector Road
- Local Road
- Railroad

Lines in the basemap layer are not editable.

LEGEND

- Route I ride
- Route I'd like to ride
- Place I walk/bike to
- Barrier to walking
- Barrier to biking

Add route Add point Photo Stream Find Location







Project Website

- www.alexandriava.gov/pedbikeplan

Transportation & Environmental Services

Page updated Jun 2, 2014 5:26 PM

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Pedestrian and Bicycle Master Plan Update and Development of the Complete Streets Design Guidelines Manual

What's New: Ad Hoc Pedestrian and Bicycle Master Plan Advisory Committee Appointments

The City Manager recently appointed twelve members to the [Advisory Committee](#) approved by Council on April 8, 2014. The list of Advisory Committee members is shown below. The Advisory Committee will make recommendations to City staff on the update of the Pedestrian and Bicycle Master Plan and Complete Streets Design Guidelines. The group will identify pedestrian and bicycle issues and needs, and provide input on: policy recommendations, development of pedestrian and bicycle networks, project recommendations and design standards, and development of criteria for prioritizing project recommendations.

The Committee will hold its first meeting on **June 25, 2014**, from 7:00 p.m. to 9:00 p.m., at City Hall (301 King Street, Room 1101, Sister Cities). The Committee will meet approximately six times (additional meetings may be required if necessary) over the course of the estimated 18-month process. The Committee will sunset upon completion of the plan.

Ad Hoc Pedestrian and Bicycle Master Plan Advisory Committee Members

- Jennifer Hovis, Committee Chair, Community Representative
- Carol Abrams, Community Representative
- Scott Anderson, Alexandria Bicycle and Pedestrian Advisory Committee Representative
- Steve Beggs, Parks and Recreation Commission
- Dave Brown, Planning Commission
- Mollie Danforth, Commission on Persons with Disabilities
- John Fennell, Design Professional Representative
- Dan Kulund, Commission on Aging
- Skip Maginniss, Business Representative
- Kevin Posey, Transportation Commission designee
- William Schuyler, Traffic and Parking Board
- Pablo Torres, Community Representative

Background Information

The FY 2014 Interdepartmental Work Program approved by City Council on May 29, 2013 identified the Pedestrian and Bicycle Master Plan update as a planning effort to begin in FY 2014. The City's 2008 Transportation Master Plan envisions a transportation system that encourages the use of alternative modes of transportation, reduces dependence on the automobile, and promotes a balance between travel efficiency and quality of life. The City's Pedestrian and Bicycle Mobility Plan, also completed in 2008, is a supporting technical document to the Transportation Master Plan that provides additional planning guidance for pedestrian and bicycle projects. Since then, the City has adopted a [Complete Streets Policy](#) leading to the implementation of a number of pedestrian and bicycle improvement projects, and initiated the Capital Bikeshare program, both of which continue to expand citywide.

QUICK LINKS

- ▶ Transportation & Environmental Services
- ▶ General Information
- ▶ Bikes and Peds
- ▶ Bikeshare Program
- ▶ BRAC-133
- ▶ Complaint Form
- ▶ Contacts
- ▶ Compliment Form
- ▶ Construction and Inspection
- ▶ Eco-City Alexandria
- ▶ Engineering & Design
- ▶ Environmental Policy Commission
- ▶ Environmental Quality
- ▶ GenOn Power Plant
- ▶ Local Motion
- ▶ Maintenance Division
- ▶ Motorcoach Task Force
- ▶ Parking
- ▶ Plastic Bag Recycling Initiative
- ▶ Resource Recovery
- ▶ Traffic Calming
- ▶ Traffic & Parking Board
- ▶ Transit Services
- ▶ Transportation Commission
- ▶ Transportation Division
- ▶ Transportation Master Plan
- ▶ Transportation Planning
- ▶ T&ES Permits
- ▶ What's Next, Alexandria?
- ▶ Eisenhower Avenue Widening Project
- ▶ King-Beauregard Intersection Improvement
- ▶ Stormwater Infiltration and Inflow Program



Thank You

QUESTIONS?